

Sub
C1

15. A radio apparatus for mobile radio, comprising a receiver part provided with an evaluation unit which controls said receiver part as a function of a predeterminable signal reception quality and an actual signal reception, said evaluation unit being formed so that in an event of defective signal reception said evaluation unit increases a parameter selected from the group consisting of a sensitivity, a signal-to-noise ratio, and both of said receiver part, said evaluation unit being formed so that in an event of error-free signal reception for a predetermined time, said evaluation unit lowers said at least one parameter of said receiver part.

16. A radio apparatus as defined in claim 15, wherein said evaluation unit is formed so that it increases said at least one parameter of said receiver part in an event of neighboring channel disturbance or intermodulation.

17. A radio apparatus as defined in claim 15, wherein said evaluation unit is formed so that in an operating mode said evaluation unit increases said at least one parameter of said receiver part to a maximum value.

18. A radio apparatus as defined in claim 15, wherein said receiver part includes at least one add-on reception amplifier, so that said evaluation unit add said at least one reception amplifier in an event of

defective signal reception and bypasses it in an event of error-free signal reception.

19. A radio apparatus as defined in claim 15, wherein said receiver part has at least one mixer, said evaluation unit being formed so that in an event of defective signal reception said evaluation unit increases a power supply of said at least one mixer to a first predetermined value and in an event of error-free signal reception said evaluation unit reduces it to a second predetermined value.

20. A radio apparatus as defined in claim 15, wherein said receiver part includes at least one first filter configuration and one second filter configuration, so that said evaluation unit adds one of said filter configurations in which a higher signal-to-noise ratio of said receiver part is assured.

21. A radio apparatus as defined in claim 15, wherein said evaluation unit is formed so that in an operating mode it provides at least one operation selected from the group consisting of adding at least one reception amplifier in said receiver part, increasing a power supply of a mixer of said receiving part to a first predetermined value, and switching over to one of filter configuration of said receiver part in which greater signal-to-noise ratio of said receiver part is assured.

22. A radio apparatus as defined in claim 17; and further comprising means forming an insertion slot for a chip card and a card reader, so that the operating mode can be established as a function of the chip card detected in said insertion slot by said card reader.

23. A radio apparatus as defined in claim 17; and further comprising a push button switch by which the operating mode can be established.

24. A radio apparatus as defined in claim 17; and further comprising means receiving a request by a base station, so that the operating mode can be established as a function of the request by the base station.

25. A radio apparatus as defined in claim 24; and further comprising means for sending back a signal sent previously to the radio apparatus.

26. A radio apparatus as defined in claim 17; and further comprising an external power supply formed so that the operating mode can be established upon detection of said external power supply.

27. A radio apparatus as defined in claim 26; and further

comprising an additional element selected from the group consisting of a power supply adaptor and a connected external antenna, so that the operating mode is established upon detection of said external power supply through said additional element.

28. A radio apparatus as defined in claim 17; and further comprising a sensor arranged so that the operating mode is established as a function of a measured value ascertained by said sensor.

29. A radio apparatus as defined in claim 28; and further comprising a battery connected to the radio apparatus, said sensor being formed so as to detect a charge of said battery, so that the operating mode is established as a function of the charge of said battery detected by said sensor.

30. A radio apparatus as defined in claim 17; and further comprising a data processing unit; and an interface provided for connecting said data processing unit, so that the operating mode is established as a function of data transmitted to the radio apparatus via said interface.